

CLAIMS

1. A laminated glazing panel comprising two glass plies, a plastic ply and one or more light emitting diodes which are laminated between the glass plies, wherein the one or more light emitting diodes are mounted on a circuit board.
2. A laminated glazing panel as claimed in claim 1 wherein the circuit board includes a flexible circuit board comprising a substrate and a conductive layer.
3. A laminated glazing panel as claimed in claim 2 wherein the substrate comprises polyimide.
4. A laminated glazing panel as claimed in claim 2 wherein the substrate comprises polyester.
5. A laminated glazing panel as claimed in any of claims 2 to 4 wherein the conductive layer is a metal foil which is adhered to the substrate.
6. A laminated glazing panel as claimed in any of claims 2 to 4 wherein the conductive layer is conductive ink which is in direct contact with the substrate.
7. A laminated glazing panel as claimed in any of claims 2 to 6 wherein the flexible circuit board further comprises a rigid layer.
8. A laminated glazing panel as claimed in any of claims 2 to 7 wherein the flexible circuit board extends outwardly beyond an edge of the glazing panel to enable connection of the circuit board to a power supply.
9. A laminated glazing panel as claimed in any of the preceding claims further comprising indicia on at least one ply.

10. A laminated glazing panel as claimed in any preceding claim wherein the plastic ply comprises a cut-out therein to aid successful lamination of the one or more light emitting diodes mounted on the circuit board in the glazing panel.
11. A laminated glazing panel as claimed in any preceding claim wherein multiple plastic plies are used to laminate the one or more light emitting diodes mounted on the circuit board in the glazing panel.
12. A laminated glazing panel as claimed in claim 11 or claim 12 wherein the one or more light emitting diodes and the circuit board together are at least partially coated in a material compatible with the material of the plastic ply.
13. A laminated glazing panel as claimed in any of the preceding claims wherein the plastic ply has a thickness before lamination of 2 mm or less.
14. A laminated glazing panel as claimed in any of the preceding claims wherein the thickness of the said panel is 8 mm or less.
15. A process for the production of a laminated glazing panel comprising interleaving a plastic ply between two glass plies and laminating the plies, wherein, prior to lamination, a cut-out area is prepared in the plastic ply to receive a circuit board on which one or more light emitting diodes are mounted, said circuit board and one or more light emitting diodes together being at least partially coated with a material compatible with the material of the plastic ply, and the circuit board is positioned in the cut-out area in the plastic ply.
16. A process for the production of a laminated glazing panel comprising pairing together two plastic plies, preparing a cut-out area in the upper plastic ply to receive a circuit board on which one or more light emitting diodes are mounted, positioning said circuit board in the cut-out area,

joining a further plastic ply to the paired plastic plies, thereby creating a composite ply,

interleaving the composite ply between two glass plies and laminating the plies.

17. A process for the production of a laminated glazing panel according to claim 16 wherein the circuit board and one or more light emitting diodes together are at least partially coated with a material compatible with the material of the plastic ply.
18. A process for the production of a laminated glazing panel according to claim 15 or 17 wherein the overall thickness of the coated circuit board on which one or more light emitting diodes are mounted is comparable with the thickness of the plastic ply in which it is positioned.
19. Use of a laminated glazing panel as claimed in any of claims 1 to 14, in a window, door or screen.